Proportional Reasoning   Name _____
September 10, 2009

1. Casey's shop class is making a golf trophy. He has to paint 300 dimples on a golf ball. If
    it takes him 2 seconds to paint one dimple, how many minutes will he need to do his job?
        (A) 4 (B) 6 (C) 8 (D) 10 (E) 12

2. Granny Smith has $63. Elberta has $2 more than Anjou and Anjou has one-third as much
    as Granny Smith. How many dollars does Elberta have?
        (A) 17 (B) 18 (C) 19 (D) 21 (E) 23

3. On a dark and stormy night Snoopy suddenly saw a flash of lightning. Ten seconds later
    he heard the sound of thunder. The speed of sound is 1088 feet per second and one mile
    is 5280 feet. Estimate, to the nearest half-mile, how far Snoopy was from the flash of
    lightning.
        (A) 1   (B) 1 ½   (C) 2   (D) 2 ½   (E) 3

4. Six trees are equally spaced along one side of a straight road. The distance from the first
    tree to the fourth is 60 feet. What is the distance in feet between the first and last trees?
        (A) 90 (B) 100 (C) 105 (D) 120 (E) 140

5. A collector offers to buy state quarters for 2000% of their face value. At that rate how
    much will Bryden get for his four state quarters?
        (A) $20 (B) $50 (C) $200 (D) $500 (E) $2000

6. Of the 36 students in Richelle's class, 12 prefer chocolate pie, 8 prefer apple, and 6 prefer
    blueberry. Half of the remaining students prefer cherry pie and half prefer lemon. For
    Richelle's pie graph showing this data, how many degrees should she use for cherry pie?
        (A) 10 (B) 20 (C) 30 (D) 50 (E) 72

7. Homer began peeling a pile of 44 potatoes at the rate of 3 potatoes per minute. Four
    minutes later Christen joined him and peeled at the rate of 5 potatoes per minute. When
    they finished, how many potatoes had Christen peeled?
        (A) 20 (B) 24 (C) 32 (D) 33 (E) 40

8.   A group of 8 people are going camping for three days and need to carry their own
     water. They read in a guidebook that 12.5 liters are needed for a party of 5
     persons for 1 day. How much water should they carry?